

CLAIMS

What is claimed is:

1 1. An apparatus comprising:
2 a lever;
3 a first fastener coupled to the lever; and
4 a second fastener coupled to the lever, the second
5 fastener to engage a display support member when the lever
6 is placed in a first state and to disengage from the display
7 support member when the lever is placed in a second state.

1 2. The apparatus according to claim 1 wherein the
2 first fastener is pivotally coupled to the lever.

1 3. The apparatus according to claim 1, wherein the
2 lever is positioned between a pair of display panels forming
3 a display housing of an electronic device.

1 4. The apparatus according to claim 3, wherein the
2 electronic device is a portable computer adapted to be
3 converted to a tablet computer.

1 5. The apparatus according to claim 1, wherein the
2 first fastener is pivotally coupled to a first end of the
3 lever and the second fastener is fixedly coupled to a second
4 end of the lever.

5 6. The apparatus according to claim 5 further
6 comprising:
7 a biasing mechanism positioned proximate to the first
8 end of the lever, the biasing mechanism to maintain the

9 lever in the first state unless an event by the user places
10 the lever into the second state.

1 7. The apparatus according to claim 6, wherein the
2 biasing mechanism is a plurality of retention bumps
3 positioned on the lever and on a channel formed between a
4 pair of display panels forming the display housing.

1 8. The apparatus according to claim 1, wherein the
2 second fastener to disengage from the display support member
3 in response to the lever being laterally shifted by
4 adjusting a position of the first fastener.

1 9. The apparatus according to claim 8, wherein the
2 lever is laterally shifted by depressing the first fastener.

1 10. An interlocking mechanism adapted to a display
2 housing, comprising:
3 a bar positioned within the display housing, the bar
4 comprising a first end and a second end;
5 a first fastener coupled to the first end of the bar;
6 and
7 a second fastener coupled to the second end of the bar,
8 the second fastener to become disengaged in response to an
9 adjustment of the bar.

1 11. The interlocking mechanism according to claim 10,
2 wherein the second fastener being engaged with or disengaged
3 from a display support member.

1 12. The interlocking mechanism according to claim 10,
2 wherein the second fastener, when disengaged, enables the

3 display housing to be vertically pivoted independently from
4 the display support member.

1 13. The interlocking mechanism according to claim 10,
2 wherein the first fastener is pivotally coupled to the first
3 end of the bar and positioned outside to the display
4 housing.

1 14. The interlocking mechanism according to claim 13,
2 wherein the second fastener is positioned to protrude from
3 an opening in one of a plurality of display panels forming
4 the display housing.

5 15. The interlocking mechanism according to claim 11
6 further comprising a biasing mechanism to cause the second
7 fastener to remain engaged with a slot of the display
8 support member until an event causes the adjustment of the
9 bar and disengagement of the second fastener from the slot
10 of the display support member when the display housing is
11 vertically pivoted in a counter-clockwise direction.

1 16. The interlocking mechanism according to claim 11,
2 wherein the display support member comprising a plurality of
3 members each pivotally coupled to a hinge unit positioned at
4 a back display panel of the display housing.

1 17. An electronic device comprising:
2 a hinge assembly;
3 a display support member pivotally coupled to the hinge
4 assembly; and
5 a display housing pivotally coupled to (i) the display
6 support member at a first horizontal axis of rotation and

7 (ii) the hinge assembly at a second horizontal axis of
8 rotation, the display housing comprising
9 a flat panel display, and
10 an interlocking mechanism comprising a first
11 fastener and a second fastener connected to the first
12 fastener for engagement with the display support
13 member, the second fastener to become disengaged from
14 the display support member in response to an event
15 performed on the first fastener.

1 18. The electronic device of claim 17, wherein the
2 first fastener of the interlocking mechanism is positioned
3 at a top portion of the display housing and the second
4 fastener of the interlocking mechanism is positioned at a
5 bottom portion of the display housing.

1 19. The electronic device according to claim 17,
2 wherein the display support member is pivotally coupled to
3 the display housing approximately at a longitudinal center
4 of a back display panel of the display housing.

1 20. The electronic device according to claim 17,
2 wherein the first fastener and the second fastener of the
3 interlocking mechanism of the display housing are connected
4 by a lever.

1 21. The electronic device according to claim 20,
2 wherein the first fastener of the interlocking mechanism of
3 the display housing is pivotally coupled to the lever and
4 the second fastener of the interlocking mechanism of the
5 display housing is fixedly coupled to the lever.

1 22. The electronic device according to claim 21,
2 wherein the second fastener of the interlocking mechanism of
3 the display housing is disengaged from the display support
4 member when the second fastener is disengaged from a slot of
5 the display support member.

1 23. The electronic device according to claim 20,
2 wherein depression of the first fastener of the interlocking
3 mechanism of the display housing causes laterally shifting
4 of the lever and the second fastener, causing the second
5 fastener to become disengaged from the display support
6 member once the display housing is vertically pivoted
7 independently from the display support member.

1 24. The electronic device according to claim 20,
2 wherein pivoting of the first fastener of the interlocking
3 mechanism of the display housing causes laterally shifting
4 of both the lever and the second fastener, causing the
5 second fastener to become disengaged from the display
6 support member.

1 25. A method for adjusting a position of a display
2 housing of an electronic device, comprising:
3 disengaging a first fastener to enable a display
4 housing and a display support member of an electronic device
5 to be collectively rotated about a first horizontal axis of
6 rotation; and
7 disengaging a second fastener to detach a bottom
8 portion of the display housing from the display support
9 member, the second fastener, connected to the first fastener

10 by a lever, being disengaged in response to an event
11 performed on the first fastener.

1 26. The method according to claim 25 further
2 comprising:
3 rotating the display housing independently from the
4 display support member about a second horizontal axis of
5 rotation in order to invert the display housing.

1 27. The method according to claim 26, wherein the
2 second horizontal axis of rotation is set at an approximate
3 longitudinal center of a back display panel of the display
4 housing.